

IFW16

#### RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/581,651C

DATE: 08/05/2004 TIME: 10:25:18

Input Set : A:\ERPO1.003APC.TXT

Output Set: N:\CRF4\08052004\I581651C.raw

4 <110> APPLICANT: Schor, Seth Lawrence Schor, Ana Maria 7 <120> TITLE OF INVENTION: Polypeptides, Polynucleotides and Uses Thereof 10 <130> FILE REFERENCE: ERPO1.003APC 12 <140> CURRENT APPLICATION NUMBER: 09/581,651C 13 <141> CURRENT FILING DATE: 2000-10-10 15 <150> PRIOR APPLICATION NUMBER: PCT/GB98/03766 16 <151> PRIOR FILING DATE: 1998-12-15 18 <150> PRIOR APPLICATION NUMBER: GB 9726539.1 19 <151> PRIOR FILING DATE: 1997-12-16 21 <160> NUMBER OF SEQ ID NOS: 45 23 <170> SOFTWARE: FastSEQ for Windows Version 4.0 25 <210> SEQ ID NO: 1 26 <211> LENGTH: 675 27 <212> TYPE: PRT 28 <213> ORGANISM: Homo sapiens 30 <400> SEQUENCE: 1 31 Asn Leu Val Ala Thr Cys Leu Pro Val Arg Ala Ser Leu Pro His Arg 33 Leu Asn Met Leu Arg Gly Pro Gly Pro Gly Leu Leu Leu Ala Val 35 Leu Cys Leu Gly Thr Ala Val Pro Ser Thr Gly Ala Ser Lys Ser Lys 40 37 Arg Gln Ala Gln Gln Met Val Gln Pro Gln Ser Pro Val Ala Val Ser 55 39 Gln Ser Lys Pro Gly Cys Tyr Asp Asn Gly Lys His Tyr Gln Ile Asn 70 41 Gln Gln Trp Glu Arg Thr Tyr Leu Gly Asn Val Leu Val Cys Thr Cys 43 Tyr Gly Gly Ser Arg Gly Phe Asn Cys Glu Ser Lys Pro Glu Ala Glu 100 105 45 Glu Thr Cys Phe Asp Lys Tyr Thr Gly Asn Thr Tyr Arg Val Gly Asp 47 Thr Tyr Glu Arg Pro Lys Asp Ser Met Ile Trp Asp Cys Thr Cys Ile 49 Gly Ala Gly Arg Gly Arg Ile Ser Cys Thr Ile Ala Asn Arg Cys His 50 145 155 51 Glu Gly Gly Gln Ser Tyr Lys Ile Gly Asp Thr Trp Arg Arg Pro His 52 165 170

53 Glu Thr Gly Gly Tyr Met Leu Glu Cys Val Cys Leu Gly Asn Gly Lys

55 Gly Glu Trp Thr Cys Lys Pro Ile Ala Glu Lys Cys Phe Asp His Ala

185

### RAW SEQUENCE LISTING

DATE: 08/05/2004 PATENT APPLICATION: US/09/581,651C TIME: 10:25:18

Input Set : A:\ERPO1.003APC.TXT

56			195					200					205			
57	Ala	Gly	Thr	Ser	Tyr	Val	Val	Gly	Glu	Thr	Trp	Glu		Pro	Tyr	Gln
58		210					215	-			-	220	2		- 1 -	
59	Gly	Trp	Met	Met	Val	Asp	Cys	Thr	Cys	Leu	Gly	Glu	Gly	Ser	Gly	Arq
	225					230			-		235		•		_	240
61	Ile	Thr	Cys	Thr	Ser	Arg	Asn	Arg	Cys	Asn	Asp	Gln	Asp	Thr	Arq	Thr
62					245					250			_		255	
63	Ser	Tyr	Arg	Ile	Gly	Asp	Thr	Trp	Ser	Lys	Lys	Asp	Asn	Arg	Gly	Asn
64				260					265					270	_	
65	Leu	Leu	Gln	Cys	Ile	Cys	Thr	Gly	Asn	Gly	Arg	Gly	Glu	Trp	Lys	Cys
66			275					280					285			
67	${ m Glu}$	Arg	His	Thr	Ser	Val	Gln	Thr	Thr	Ser	Ser	Gly	Ser	Gly	Pro	Phe
68		290					295					300				
69	Thr	Asp	Val	Arg	Ala	Ala	Val	Tyr	Gln	Pro	Gln	Pro	His	Pro	Gln	Pro
	305					310					315					320
71	Pro	Pro	Tyr	Gly	${ t His}$	Cys	Val	Thr	Asp	Ser	Gly	Val	Val	Tyr	Ser	Val
72					325					330					335	
73	Gly	Met	Gln	$\operatorname{Trp}$	Leu	Lys	Thr	Gln	Gly	Asn	Lys	Gln	Met	Leu	Cys	Thr
74				340					345					350		
75	Cys	Leu	Gly	Asn	Gly	Val	Ser	Cys	Gln	Glu	Thr	Ala	Val	Thr	Gln	Thr
76			355					360					365			
77	Tyr	Gly	Gly	Asn	Ser	Asn	Gly	Glu	Pro	Cys	Val	Leu	Pro	Phe	Thr	Tyr
78		370					375					380				
		Gly	Arg	Thr	Phe	Tyr	Ser	Cys	Thr	Thr	Glu	Gly	Arg	Gln	Asp	Gly
	385					390					395					400
	His	Leu	Trp	Cys		Thr	Thr	Ser	Asn		Glu	Gln	Asp	Gln	Lys	Tyr
82	_		_		405		_			410					415	
	Ser	Phe	Cys		Asp	His	Thr	Val		Val	Gln	Thr	Gln	_	Gly	Asn
84	0	7	<b>a</b> 1	420	<b>.</b>				425	-1	_	_	_	430		_
	ser	Asn		Ата	ьeu	Cys	His		Pro	Phe	Leu	Tyr		Asn	His	Asn
86 87	(T)= ===	mls as	435	<b>a</b>	m1	<b>a</b>	<b>a</b> 1	440	3	,		_	445	_	_	~
88	ıyı	450	Asp	Cys	THE	Ser		GIA	Arg	Arg	Asp		мет	гàг	Trp	Cys
	C1		The se	<i>α</i> 1	7.00	TD= ===	455	7.7	7	~1	<b>T</b>	460	<b>a</b> 1	D1	<b>a</b>	
	465	1111	TIII	GIII	ASII	Tyr 470	Asp	Ala	Asp	GIN		Pne	GLY	Pne	Cys	
		ת ד ת	ת דת	ніс	Clu		т1.	Crra	The sec	The	475	<b>a</b> 1	G1	T 7 7	14 - L	480
92	Mec	АТа	Ата	птъ	485	Glu	116	Cys	TIII	490	ASII	GIU	Gry	Val	меt 495	IÀT
	Δra	Tle	Glw	Δen		Trp	7) en	Lare	Gln.		Λcn	Mot	C1	Uic		Mot
94	ALG	TIC	Сту	500	Gin	пр	АБР	цуб	505	птъ	ASP	Mec	GTÀ	510	Mec	мес
	Ara	Cvs	Thr		Val	Gly	Men	Glv		Glv	Glu	Trn	Thr		Тугт	Λla
96	1119	СуБ	515	Cys	val	Gry	Non	520	Arg	Gry	GIU	тър	525	Cys	ıyı	Ala
	Tur	Ser		T.e.11	Δra	Asp	Gln		Tla	V-1	λen	Λαn		Thr	Тугт	7 cn
98	TYT	530	OIII	пец	Arg	мър	535	Cys	116	vaı	Asp	540	TIE	TIII	туг	ASII
	Val		Asn	Thr	Phe	His		Δra	Hic	Glu	Glu		шic	Mot	Len	Λcn
	545		1101	1.111.	LIIC	550		Arg	11110	GIU	555		птъ	Met	цец	560
			. ('vc	Ph4	G] t			, Δνο	ı Gla	, Δνο			: ('375	. Acr	) Pro	Val
102			-y -	- 110	565		. J_y	111 0	, 01)	570		, my s	, cyr	, wol	575	
		Gln	Cvs	Glr			Gli	Thr	· Gla			ጥነ/	· Glr	171 <i>-</i>		, Asp
104			-1-	580					585		- 110	y 1		590		1.2p
_														220		

# RAW SEQUENCE LISTING PATENT APPLICATION: US/09/581,651C DATE: 08/05/2004 TIME: 10:25:18

Input Set : A:\ERPO1.003APC.TXT

```
105 Ser Trp Glu Lys Tyr Val His Gly Val Arg Tyr Gln Cys Tyr Cys Tyr
106
           595
                               600
                                                   605
107 Gly Arg Gly Ile Gly Glu Trp His Cys Gln Pro Leu Gln Thr Tyr Pro
                           615
109 Ser Ser Ser Gly Pro Val Glu Val Phe Ile Thr Glu Thr Pro Ser Gln
110 625
                       630
                                           635
111 Pro Asn Ser His Pro Ile Gln Trp Asn Ala Pro Gln Pro Ser His Ile
                   645
                                       650
113 Ser Lys Tyr Ile Leu Arg Trp Arg Pro Val Ser Ile Pro Pro Arg Asn
               660
114
                                   665
115 Leu Gly Tyr
116
119 <210> SEQ ID NO: 2
120 <211> LENGTH: 2147
121 <212> TYPE: DNA
122 <213> ORGANISM: Homo sapiens
124 <400> SEQUENCE: 2
125 caaacttggt ggcaacttgc ctcccggtgc gggcgtctct cccccaccgt ctcaacatgc 60
126 ttaggggtcc ggggcccggg ctgctgctqc tqqccqtcca qtqcctqqqq acaqcqqtqc 120
127 cctccacggg agcctcgaag agcaagaggc aggctcagca aatgqttcag ccccaqtccc 180
128 cggtggctgt cagtcaaagc aagcccggtt gttatgacaa tggaaaacac tatcagataa 240
129 atcaacagtg ggagcggacc tacctaggca atgcgttggt ttgtacttgt tatggaggaa 300
130 geogaggttt taactgegag agtaaacetg aagetgaaga gaettgettt gacaagtaca 360
131 ctgggaacac ttaccgagtg ggtgacactt atgagcgtcc taaagactcc atgatctggg 420
132 actgtacetg categggget gggegaggga gaataagetg taccategea aacegetgee 480
133 atgaagggg tcagtcctac aagattggtg acacctggag gagaccacat gagactggtg 540
134 gttacatgtt agagtgtgtg tgtcttggta atggaaaagg agaatggacc tgcaagccca 600
135 tagctgagaa gtgttttgat catgctgctg ggacttccta tgtggtcgga gaaacgtggg 660
136 agaageeeta eeaaggetgg atgatggtag attgtaettg eetgggagaa ggeageggae 720
137 gcatcacttg cacttctaga aatagatgca acqatcagga cacaaggaca tcctatagaa 780
138 ttggagacac ctggagcaag aaggataatc gaggaaacct gctccagtgc atctgcacag 840
139 qcaacqqccq aqqaqaqtqq aaqtqtqaqa qqcacacctc tqtqcaqacc acatcqaqcq 900
140 gatetggece etteacegat gttegtgeag etgtttaeea acegeageet eacececage 960
142 ggctgaagac acaaggaaat aagcaaatgc tttgcacgtg cctgggcaac ggagtcagct 1080
143 gccaaqaqac aqctqtaacc caqacttacq qtqqcaactc aaatqqaqaq ccatqtqtct 1140
144 taccattcac ctacaacqac aqqacqqaca qcacaacttc qaattatqaq caqqaccaqa 1200
145 aatactettt etgeacagae cacaetgttt tggtteagae tegaggagga aattecaatg 1260
146 gtgccttgtg ccacttcccc ttcctataca acaaccacaa ttacactgat tgcacttctg 1320
147 agggcagaag agacaacatg aagtggtgtg ggaccacaca gaactatgat gccgaccaga 1380
148 agtttgggtt ctgccccatg gctgcccacg aggaaatctg cacaaccaat gaaggggtca 1440
149 tgtaccgcat tggagatcag tgggataagc agcatgacat gggtcacatg atgaggtgca 1500
150 cgtgtgttgg gaatggtcgt ggggaatgga catgcattgc ctactcgcag cttcgagatc 1560
151 agtgcattqt tqatqacatc acttacaatq tqaacqacac attccacaaq cqtcatqaaq 1620
152 aggggcacat gctgaactgt acatgcttcg gtcagggtcg gggcaggtgg aagtgtgatc 1680
153 ccgtcgacca atgccaggat tcagagactg ggacgtttta tcaaattgga gattcatggg 1740
154 agaagtatgt gcatggtgtc agataccagt gctactgcta tggccgtggc attggggagt 1800
155 ggcattgcca acctttacag acctatccaa gctcaagtgg tcctgtcgaa gtatttatca 1860
156 ctgagactec gagteageec aacteecace ceatecagtg gaatgeacea cagecatete 1920
```

## RAW SEQUENCE LISTING PATENT APPLICATION: US/09/581,651C DATE: 08/05/2004 TIME: 10:25:18

Input Set : A:\ERPO1.003APC.TXT

```
157 acatttccaa gtacattctc aggtggagac ctgtgagtat cccacccaga aaccttggat 1980
158 actgagtete etaatettat caattetgat ggtttetttt ttteccaget tttgagecaa 2040
159 caactctgat taactattcc tatagcattt actatatttg tttagtgaac aaacaatatg 2100
160 tggtcaatta aattgacttg tagactgaaa aaaaaaaaa aaaaaaa
162 <210> SEQ ID NO: 3
163 <211> LENGTH: 20
164 <212> TYPE: PRT
165 <213> ORGANISM: Homo sapiens
167 <400> SEQUENCE: 3
168 Ile Ser Lys Tyr Ile Leu Arg Trp Arg Pro Val Ser Ile Pro Pro Arg
169 1
170 Asn Leu Gly Tyr
171
                20
174 <210> SEQ ID NO: 4
175 <211> LENGTH: 21
176 <212> TYPE: PRT
177 <213> ORGANISM: Homo sapiens
179 <400> SEQUENCE: 4
180 Gln Gln Trp Glu Arg Thr Tyr Leu Gly Asn Ala Leu Val Cys Thr Cys
                                         10
182 Tyr Gly Gly Ser Arg
                20
186 <210> SEQ ID NO: 5
187 <211> LENGTH: 23
188 <212> TYPE: PRT
189 <213> ORGANISM: Homo sapiens
191 <400> SEQUENCE: 5
192 Pro Cys Val Leu Pro Phe Thr Tyr Asn Asp Arg Thr Asp Ser Thr Thr
                                         1.0
194 Ser Asn Tyr Glu Gln Asp Gln
                20
198 <210> SEQ ID NO: 6
199 <211> LENGTH: 20
200 <212> TYPE: PRT
201 <213> ORGANISM: Homo sapiens
203 <400> SEQUENCE: 6
204 Thr Asp His Thr Val Leu Val Gln Thr Arg Gly Gly Asn Ser Asn Gly
205 1
206 Ala Leu Cys His
207
210 <210> SEQ ID NO: 7
211 <211> LENGTH: 21
212 <212> TYPE: PRT
213 <213 > ORGANISM: Homo sapiens
215 <400> SEQUENCE: 7
216 Val Gly Asn Gly Arg Gly Glu Trp Thr Cys Ile Ala Tyr Ser Gln Leu
217 1
                     5
218 Arg Asp Gln Cys Ile
219
```

### **RAW SEQUENCE LISTING**PATENT APPLICATION: **US/09/581,651C**DATE: 08/05/2004 TIME: 10:25:18

Input Set : A:\ERPO1.003APC.TXT

```
222 <210> SEQ ID NO: 8
223 <211> LENGTH: 21
224 <212> TYPE: PRT
225 <213> ORGANISM: Homo sapiens
227 <400> SEQUENCE: 8
228 Gln Gln Trp Glu Arg Thr Tyr Leu Gly Asn Val Leu Val Cys Thr Cys
230 Tyr Gly Gly Ser Arg
                20
231
234 <210> SEQ ID NO: 9
235 <211> LENGTH: 39
236 <212> TYPE: PRT
237 <213> ORGANISM: Homo sapiens
239 <400> SEQUENCE: 9
240 Glu Pro Cys Val Leu Pro Phe Thr Tyr Asn Gly Arg Thr Phe Tyr Ser
241 1
                     5
                                         10
242 Cys Thr Thr Glu Gly Arg Gln Asp Gly His Leu Trp Cys Ser Thr Thr
                20
                                     25
244 Ser Asn Tyr Glu Gln Asp Gln
            35
248 <210> SEQ ID NO: 10
249 <211> LENGTH: 21
250 <212> TYPE: PRT
251 <213> ORGANISM: Homo sapiens
253 <400> SEQUENCE: 10
254 Cys Thr Asp His Thr Val Leu Val Gln Thr Gln Gly Gly Asn Ser Asn
255 1
                     5
256 Gly Ala Leu Cys His
257
                2.0
260 <210> SEQ ID NO: 11
261 <211> LENGTH: 21
262 <212> TYPE: PRT
263 <213> ORGANISM: Homo sapiens
265 <400> SEQUENCE: 11
266 Val Gly Asn Gly Arg Gly Glu Trp Thr Cys Thr Ala Tyr Ser Gln Leu
268 Arg Asp Gln Cys Ile
269
                20
272 <210> SEQ ID NO: 12
273 <211> LENGTH: 20
274 <212> TYPE: PRT
275 <213> ORGANISM: Homo sapiens
277 <400> SEQUENCE: 12
278 Ile Ser Lys Thr Ile Leu Arg Trp Arg Pro Lys Asn Ser Val Gly Arg
279 1
                     5
                                         10
280 Trp Lys Glu Ala
281
                20
284 <210> SEQ ID NO: 13
285 <211> LENGTH: 18
```

RAW SEQUENCE LISTING ERROR SUMMARY

PATENT APPLICATION: US/09/581,651C

TIME: 10:25:19

Input Set : A:\ERPO1.003APC.TXT

Output Set: N:\CRF4\08052004\I581651C.raw

### Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:37; Xaa Pos. 676,679,683,717

### VERIFICATION SUMMARY

DATE: 08/05/2004 PATENT APPLICATION: US/09/581,651C TIME: 10:25:19

Input Set : A:\ERPO1.003APC.TXT

Output Set: N:\CRF4\08052004\1581651C.raw

 $L\!:\!763$   $M\!:\!341$  W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:672 L:767 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:704